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GP/2818  
7-15-02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Paul R. Goldberg, Vlad Fruchter, Mauricio Green, Sergiy Bilobrov,  
Jason Lasperance and Dmitri Chmounk

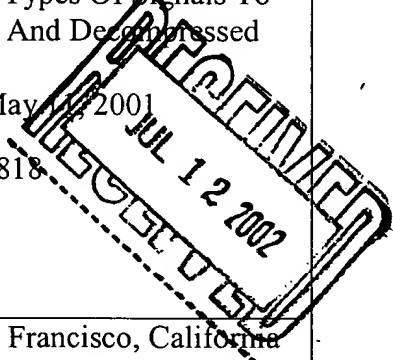
Assignee: Q Design USA, Inc. and Zoran Corporation

Title: Adding Imperceptible Noise To Audio And Other Types Of Signals To  
Cause Significant Degradation When Compressed And Decompressed

Application No.: 09/854,166 Filing Date: May 11, 2001

Examiner: Group Art Unit: 2818

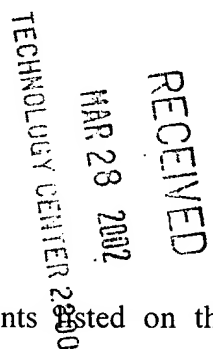
Docket No.: M-11605 US



San Francisco, California

COMMISSIONER FOR PATENTS  
Washington, D.C. 20231

**INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR § 1.97(b)**



Dear Sir:

Pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98, the documents listed on the accompanying form PTO-1449 are called to the attention of the Examiner for the above patent application. Copies of these documents are enclosed.

Citation of these documents shall not be construed as:

1. an admission that the documents are necessarily prior art with respect to the instant invention;
2. a representation that a search has been made, other than as described above; or
3. an admission that the information cited herein is, or is considered to be, material to patentability as defined in § 1.56(b).

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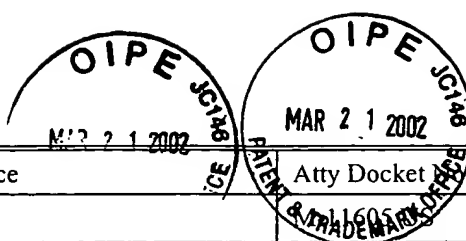
Respectfully submitted,

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*March 21, 2002*  
Date

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U.S. Department of Commerce, Patent and Trademark Office						Atty Docket No.		Serial No.	
								09/854,166	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT						Applicant(s)			
(Use several sheets if necessary)						Paul R. Goldberg et al.			
						Filing Date		Group	
						May 11, 2001		2818	
U.S. Patent Documents									
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate		
	AA	5,109,417	Apr. 28, 1992	Fielder et al.					
	AB	5,268,685	Dec. 7, 1993	Fujiwara					
	AC	5,285,498	Feb. 8, 1994	Johnston					
	AD	5,297,236	Mar. 22, 1994	Antill et al.					
	AE	5,311,561	May 10, 1994	Akagiri					
	AF	5,404,377	Apr. 4, 1995	Moses					
	AG	5,479,562	Dec. 26, 1995	Fielder et al.					
	AH	5,481,614	Jan. 2, 1996	Johnston					
	AI	5,537,510	July 16, 1996	Kim					
	AJ	5,621,856	Apr. 15, 1997	Akagiri					
	AK	5,692,102	Nov. 25, 1997	Pan					
Foreign Patent Documents									
								Translation	
		Document	Date	Country	Class	Subclass	Yes	No	
	AL	EP 2000182320	June 30, 2000	Europe			Abstract		
	AM	EP 07161140	June 23, 1995	Europe			Abstract		
	AN	EP 0831596 A2	Mar. 25, 1998	Europe					
	AO	EP 0889470 A2	Jan. 7, 1999	Europe					
	AP	EP 0947953 A2	Oct. 6, 1999	Europe					
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)									
	AQ	Article Reprinted by permission of: <u>IEEE Tr. Consumer Electronics</u> , by Vernon, Steve, "Design and Implementation of AC-3 Coders," published in Vol. 41, No. 3, August 1995, 6 pages							
	AR	Lyman, Steve et al., "Digital Audio Delivery to the Consumer," SMPTE Journal, April 2000, pps. 301-308							
	AS	Article Reprinted by permission of: <u>Audio Engineering Society, Inc.</u> , Presented at the 95 <sup>th</sup> Convention, October 7-10, 1993, by Davis, Mark, "The AC-3 Multichannel Coder," 7 pages.							
Examiner				Date Considered					
<p><b>*EXAMINER:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.</p>									

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				M-11605 US		09/854,166	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Applicant(s)			
(Use several sheets if necessary)				Paul R. Goldberg et al.			
				Filing Date		Group	
				May 11, 2001		2818	
U.S. Patent Documents							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA	5,752,225	May 12, 1998	Fielder			
	AB	5,945,932	Aug. 31, 1999	Smith et al.			
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
Foreign Patent Documents							
							Translation
		Document	Date	Country	Class	Subclass	Yes No
	AL						
	AM						
	AN						
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AO	Article Reprinted by permission of: <u>Audio Engineering Society, Inc.</u> , Presented at the 97 <sup>th</sup> Convention, November 10-13, 1994, by Davidson, Grant et al., "Parametric Bit Allocation in a Perceptual Audio Coder, 17 pages					
	AP	Boney, Laurence, et al., "Digital Watermarks for Audio Signals," <u>1996 IEEE Proceedings of Multimedia - 96</u> , pps. 473-480					
	AQ	Fastl, H., "Temporal Masking Effects: I. Broad Band Noise Masker," <u>ACUSTICA</u> , Volume 35, No. 5, (1976) pps. 287-302					
	AR	International Search Report, PCT/US 01/15328, dated October 23, 2001, three pages					
Examiner			Date Considered				
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